

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A lead assembly comprising:

an outer insulative body;

at least one coiled conductor disposed within the outer insulative body, the at least one coiled conductor extending from a conductor proximal end to a coiled conductor distal end, and at least the coiled conductor distal end is within the outer insulative body;

an inner electrode coupled with the at least one coiled conductor, the inner electrode defined in part by an inner electrode inner surface, an inner electrode outer surface and inner electrode end surfaces, the coiled conductor welded with the inner electrode outer surface at a coiled conductor weld; and

an outer electrode disposed over the inner electrode, the outer electrode including an outer electrode outer surface, the outer electrode engaged with at least a portion of the inner electrode outer surface, the coiled conductor distal end is coupled engaged between the inner electrode outer surface and the outer electrode, the outer conductor and inner conductor isolate the coiled conductor distal end from the outer insulative body, the outer electrode extends over the coiled conductor weld and isolates the coiled conductor weld from the outer electrode outer surface, and the conductor proximal end is remote from the inner electrode and the outer electrode.

2. (Original) The lead assembly as recited in claim 1, wherein the inner electrode outer surface includes a stepped portion having a ledge, and the conductor is disposed on the ledge.

3. (Currently Amended) The lead assembly as recited in claim 1, wherein the inner electrode and the outer electrode are welded together, without the outer electrode welded with the conductor.

4. (Canceled)

5. (Canceled)

6. (Previously Presented) The lead assembly as recited in claim 1, wherein at least one of the inner electrode outer surface or the outer electrode inner surface include conductor insulation disruption features.

7. (Currently Amended) A lead assembly comprising:

an outer insulative body;

at least one coiled conductor disposed within the outer insulative body, the at least one coiled conductor extending from a coiled conductor proximal end to a coiled conductor distal end;

an inner electrode coupled with the at least one coiled conductor, the inner electrode defined in part by an inner electrode inner surface, an inner electrode outer surface and inner electrode end surfaces, the coiled conductor distal end extending annularly around the inner electrode outer surface;

an outer electrode disposed over the inner electrode, the outer electrode having an outer surface, the coiled conductor distal end is annularly engaged between the inner electrode outer surface and the outer electrode, the coiled conductor distal end is isolated from the outer insulative body, and the conductor proximal end extends away from the inner electrode and the outer electrode; and

means for electrically and mechanically coupling engaging the outer electrode with the inner electrode without substantially damaging the outer surface of the outer electrode.

8. (Original) The lead assembly as recited in claim 7, wherein the means for electrically and mechanically coupling the outer electrode with the inner electrode includes a laser welded coupling formed between the inner electrode and the outer electrode.

9. (Original) The lead assembly as recited in claim 7, wherein the means for electrically and mechanically coupling the outer electrode with the inner electrode includes a magnetic swage coupling.

10. (Original) The lead assembly as recited in claim 7, wherein at least a portion of at least one of the inner electrode and the outer electrode are formed of shape memory material.

11. (Currently Amended) The lead assembly as recited in claim 7, wherein the coiled conductor is disposed between the outer electrode and the inner electrode, and the outer electrode, the coiled conductor, and the inner electrode are coupled together at substantially the same time.

12. (Previously Presented) The lead assembly as recited in claim 7, further comprising means for disrupting conductor insulation disposed between the inner and outer electrode.

13-25. (Canceled)

26. (Currently Amended) The lead assembly as recited in claim 1, further comprising an adhesive disposed adjacent one or a combination of the outer insulative body, the coiled conductor, the inner electrode, or the outer electrode.

27. (Previously Presented) The lead assembly as recited in claim 1, wherein an outer electrode outer surface includes a coated or chemically treated surface.

28. (Previously Presented) The lead assembly as recited in claim 27, wherein the coated or treated surface includes IrOx or titanium oxide.

29. (Canceled)

30. (Currently Amended) The lead assembly as recited in claim [[29]] 1, wherein the weld is visible.

31. (Currently Amended) The lead assembly as recited in claim 1, further comprising an insulative tubing disposed over one or both of the coiled conductor or the inner electrode.

32. (Previously Presented) The lead assembly as recited in claim 3, wherein the inner electrode and the outer electrode are laser welded or resistance welded together.
33. (Currently Amended) The lead assembly as recited in claim 7, further comprising an adhesive disposed adjacent one or a combination of the outer insulative body, the coiled conductor, the inner electrode, or the outer electrode.
34. (Currently Amended) The lead assembly as recited in claim 7, further comprising an insulative tubing disposed over at least a portion of the coiled conductor and the inner electrode.
35. (Previously Presented) The lead assembly as recited in claim 7, wherein the means for electrically and mechanically coupling the outer electrode with the inner electrode includes a resistance welded coupling formed between the inner electrode and the outer electrode.
36. (Previously Presented) The lead assembly as recited in claim 7, further comprising means for interlocking the outer electrode with the inner electrode, the means for interlocking disposed on one or both of an outer electrode inner surface or the inner electrode outer surface.
37. (Previously Presented) The lead assembly as recited in claim 7, wherein the outer electrode outer surface includes a chemically treated outer surface; and
wherein the means for electrically and mechanically coupling the outer electrode with the inner electrode includes means for electrically and mechanically coupling the outer electrode with the inner electrode without substantially damaging the chemically treated outer surface of the outer electrode.
38. (Previously Presented) The lead assembly as recited in claim 1, wherein the outer electrode includes a ring electrode.
39. (Canceled)

40. (New) The lead assembly as recited in claim 3, wherein the inner electrode and the outer electrode are welded together only at the inner electrode end surface and an outer electrode end surface.

41. (New) The lead assembly as recited in claim 6, wherein the insulation disruption features are sized and shaped to grab the coiled conductor distal end proximal to the coiled conductor weld, and the insulation disruption features hold the coiled conductor distal end and the coiled conductor weld immobile relative to the inner electrode.

42. (New) The lead assembly as recited in claim 12, wherein the coiled conductor distal end is coupled with the inner electrode at a coiled conductor weld, and the means for disrupting conductor insulation is sized and shaped to engage the conductor distal end proximal to the coiled conductor weld, and the means for disrupting conductor insulation immobilizes the coiled conductor weld relative to the inner electrode.

43. (New) The lead assembly as recited in claim 1, wherein the coiled conductor weld extends at least partially around the inner electrode outer surface and the coiled conductor.